



Energy Information Management

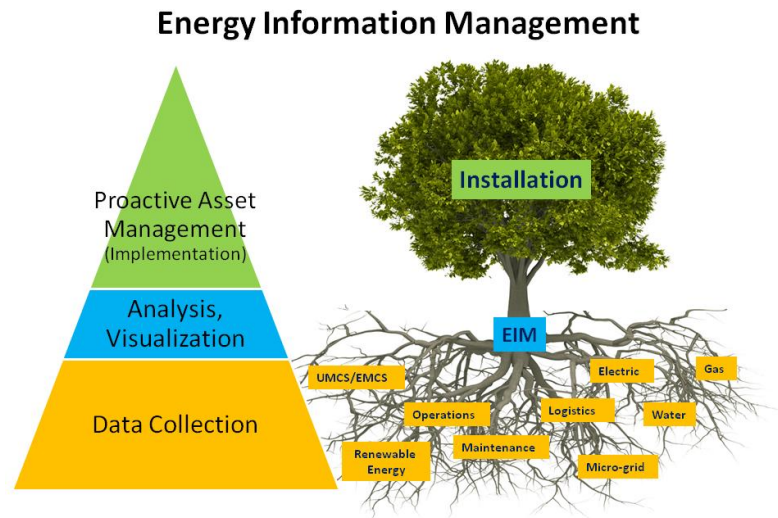
Program Manager 256-895-1322

U.S. ARMY CORPS OF ENGINEERS

BUILDING STRONG®

The U.S. Army Engineering and Support Center, Huntsville, Energy Information Management (EIM) Program automates energy management by consolidating the installation data into a single holistic Wide Area Visualization Environment (WAVE) for proactive asset management. Automated energy management enables garrisons to meet mission assurance and energy security requirements. EIM addresses the key needs and requirements of the energy manager and other programs within a garrison. EIM provides the integrated information management that meets:

- energy reporting requirements;
- Office of the Secretary of Defense (OSD) Enterprise Energy Information Management Capabilities Requirements;
- Army Chief Information Officer/G-6 information architecture requirement;
- cyber security requirements – Accredited; and
- the interoperability of systems (open architecture) through developing the standard architecture for data sharing.



The EIM Program continues to adjust to the changing energy management environment and energy reporting requirements. EIM data integration enables soldiers, civilians and contractors working at Army job sites to recognize and manage the following:

Energy (Production, Consumption, Rates)	Capital Investment Strategy (Project Planning)
Energy reporting, Density, intensity and time of use	Project Implementation
Measurement and Verification	Energy System Maintenance and Life Cycle
Critical Communication infrastructure maintenance	Facility Operations
Standards/Requirements for energy management activities/systems	Facility Maintenance

Benefits of EIM

EIM provides garrisons with a compliant energy management visualization environment with the following benefits:

- 1) A single consolidated database for the garrison's energy management, monitoring, and reporting
- 2) Automated data collection from multiple energy systems and integration into a single view
- 3) The garrison programs (master planner, maintenance, operations, and environmental) access a common energy database/analytics for program and cross program activities and planning
- 4) Improves data availability and integrity
- 5) Garrison asset management
- 6) Provides the data for development of the Capital Investment Strategy
- 7) Provides project measurement and verification using real-time data

U.S. Army Corps of Engineers – Engineering and Support Center, Huntsville

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Life Cycle Maintenance

The EIM Program provides the data life cycle management for current and future energy actions. The data and information cycle to the right is tailored to the specific needs of the garrison. The EIM Program has the expertise to provide the data and information cycle for continuous process and efficiency improvements while sustaining life cycle maintenance.

Drivers/Requirements for EIM

Multiple laws, regulations, policies, and directives set forth requirements for energy management and reporting. In addition to the explicit requirements, the following overarching energy and data management goals, requirements and visions provide the drivers for EIM.

1) Energy reporting to Congress

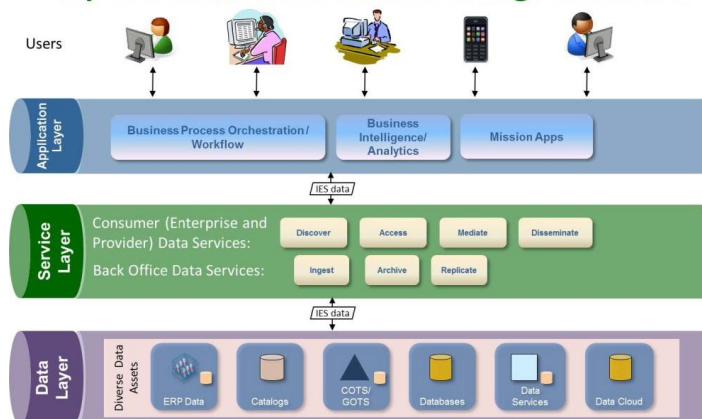
2) Measuring Achievement of the Army Energy Security Implementation Strategy (ESIS) Goals

- Reduce energy consumption
- Increase energy efficiency across platforms and facilities
- Increase use of renewable/alternative energy
- Assure access to sufficient energy supplies
- Reduce adverse impacts on the environment

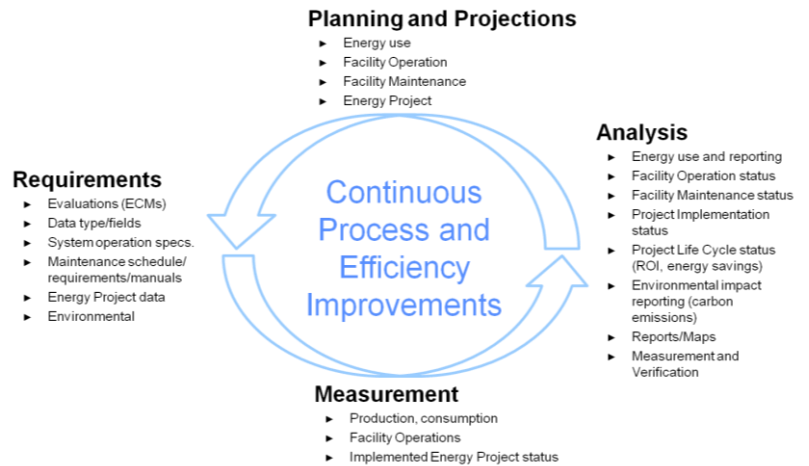
3) OSD Enterprise Energy Information Management (EEIM)

OSD released the EEIM Capabilities Requirements Document July 11, 2012, for the services to develop energy information implementation plans for the collection and reporting of energy. The capabilities requirements document specifies the energy data to be collected and reported.

Army End-State Information Sharing Framework



Data and Information Cycle



4) Army CIO/G-6 Vision

The Army Chief Information Officer/G-6 Army Information Architecture (AIA) document Version 4.1 June 5, 2013, the Army's end-state vision is a flexible, adaptable, and robust system that delivers data from any of the Army's diverse data assets to any Army consumer (human user or application), and is designed and implemented based on Service-Oriented Architecture (SOA) principles. The CIO/G6's vision is shown in the Army End-State Information Sharing Framework diagram to the left.

Installation Hotline – Assistance is available to Army installation energy managers and Directorate of Public Works personnel for all EIM issues. Email John.A.TrudellIII@usace.army.mil or call 256-895-1322.

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